Attorney Docket No.: YOR919990588US2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Rudolf Maarten Bolle

Chitra Dorai Nalini K. Ratha

Docket No.: YOR919990588US2

Serial No.: Unassigned

Filing Date: Concurrently Herewith

Title: SYSTEM AND METHOD FOR DISTORTION CHARACTERIZATION IN

FINGERPRINT AND PALM-PRINT IMAGE SEQUENCES AND USING

THIS DISTORTION AS A BEHAVIORAL BIOMETRICS

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following document(s) listed on the accompanying PTO Form 1449. Copies of non-patent documents can be provided upon Examiner's request.

U.S. Patent Documents

- 1. U.S. Patent No. 5,933,515
- 2. U.S. Patent No. 6,323,846
- 3. U.S. Patent No. 6,388,657
- 4. U.S. Patent No. 6,466,686
- 5. U.S. Patent No. 6,487,306

Other Documents

- 6. Bergen et al., "Hierarchical Model-Based Motion Estimation," pgs. 237, 251 (May 1992).
- 7. Dorai et al., "Extracting Motion Annotations from MPEG-2 Compressed Video for HDTV Content Management Applications," International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence Italy, IEEE Multimedia Systems '99, Vol. 1, pgs. 673-678 (1999).

- 8. Haskell et al., "Digital Video: An Introduction to MPEG-2," Motion Compensation Modes in MPEG, Chapter 7, pgs. 146-155 (1997).
- 9. Nalwa, V.S., "Automatic On-Line Signature Verification," Proceedings of the IEEE, Vol. 85, No. 2, pgs. 215-239 (February 1997).
- 10. Ratha et al., "Adaptive Flow Orientation-Based Feature Extraction in Fingerprint Images," Pattern Recognition, Vol. 28, No. 11, pgs. 1657-1672 (1995).
- 11. Ratha et al., "A Real-Time Matching System for Large Fingerprint Database," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 18, No. 8, pgs. 799-813 (1996).

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability or that no other material information exists.

Date: September 3, 2003

Respectfully submitted,

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FORM PTO-1449 (MODIFIED)

Applicant:

Rudolf Maarten Bolle

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Nalini K. Ratha YOR919990588US2

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LIST OF PUBLICATIONS FOR

Concurrently Herewith Filing Date:

Unassigned

APPLICANT'S INFORMATION DISCLOSURE STATEMENT

EVALUED		U	S. PATENT DOCUMENTS		
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS/SUBCLASS	FILING DATE IF APPROPRIA
	5,933,515	08/03/99	Pu et al.		
	6,323,846	11/01	Westerman et al.	345/173	
	6,388,657	05/02	Natoli et al.	345/168	
	6,466,686	10/02	Senior, Andrew William	382/124	
	6,487,306	11/02	Jain et al.	382/125	
		FOR	EIGN PATENT DOCUMENTS		
EXAMINER					TRANSLATION
INITIAL	DOCUMENT NO.	DATE	COUNTRY	CLASS/SUBCLASS	YES NO
			OTHER ROCHMENTS		
EXAMINER			OTHER DOCUMENTS		
NITIAL	REF NO. AUT	HOR, TITLE, DATE, PI	ERTINENT PAGES, ETC.		
	Bergen et al., "	Hierarchical Mo	odel-Based Motion Estimation," p	gs. 237, 251 (May 199	92).
	Dorai et al., "E Management A	extracting Motions," In	odel-Based Motion Estimation," particular productions from MPEG-2 Consternational Conference on Multimate Multimedia Systems '99, Vol. 1	npressed Video for HI ledia Computing and S	DTV Conten Systems, Jur
	Dorai et al., "E Management A 7-11, 1999, Flo Haskell et al., '	extracting Motion Applications," In orence Italy, IEF	on Annotations from MPEG-2 Consternational Conference on Multime Multimedia Systems '99, Vol. 1 An Introduction to MPEG-2," Moreover the Management of the MPEG-2, and MPEG-2	npressed Video for HI ledia Computing and S l, pgs. 673-678 (1999)	OTV Conten Systems, Jun).
	Dorai et al., "E Management A 7-11, 1999, Flo Haskell et al., ' MPEG, Chapte Nalwa, V.S., "	extracting Motion Applications," In prence Italy, IEF 'Digital Video: 27, pgs. 146-15	on Annotations from MPEG-2 Compternational Conference on Multime EE Multimedia Systems '99, Vol. 1 An Introduction to MPEG-2," Mot 55 (1997). Line Signature Verification," Process	npressed Video for HI ledia Computing and S l, pgs. 673-678 (1999) tion Compensation M	OTV Contensystems, Jury).
	Dorai et al., "E Management A 7-11, 1999, Flo Haskell et al., ' MPEG, Chapte Nalwa, V.S., " pgs. 215-239 (I Ratha et al., "A	extracting Motion Applications," In prence Italy, IEE 'Digital Video: er 7, pgs. 146-15 Automatic On-IFE (Sebruary 1997).	on Annotations from MPEG-2 Compternational Conference on Multime EE Multimedia Systems '99, Vol. 1 An Introduction to MPEG-2," Mot 55 (1997). Line Signature Verification," Process	npressed Video for HI ledia Computing and S 1, pgs. 673-678 (1999) tion Compensation M eedings of the IEEE, V	OTV Contensystems, Jury). Todes in Vol. 85, No.
	Dorai et al., "E Management A 7-11, 1999, Flo Haskell et al., "MPEG, Chapte Nalwa, V.S., "pgs. 215-239 (I Ratha et al., "A Recognition, V	extracting Motion Applications," In prence Italy, IEE 'Digital Video: er 7, pgs. 146-15 Automatic On-IFebruary 1997). Adaptive Flow Col. 28, No. 11, and Real-Time Markey Col.	on Annotations from MPEG-2 Compternational Conference on Multime Multimedia Systems '99, Vol. 1 An Introduction to MPEG-2," Mod (1997). Line Signature Verification," Procedure the Systems of the Syst	npressed Video for HI ledia Computing and S l, pgs. 673-678 (1999) tion Compensation M leedings of the IEEE, V on in Fingerprint Imag	OTV Content Systems, Jurn). Todes in Vol. 85, No.

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.